



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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## The Eastern Iowa DX Bulletin

Number 277, June 6, 2025

**Craig Fastenow, KØCF, Editor**

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Propagation data is from:

National Oceanic and Atmospheric Administration's

[Space Weather Prediction Center](#)

Dr. Tony Phillips' [SpaceWeather.com](http://SpaceWeather.com), used by permission

Contest data courtesy of the [WA7BNM Contest Calendar](#)



### Solar-Terrestrial Data

07 Jun 2025 1718 GMT  
 SFI: 128 SN: 94  
 A-Index: 8  
 K-Index: 2  
 X-Ray: B7.5  
 304A: 124.6 @ SEM  
 Ptn Flx: 97  
 Elc Flx: 2020  
 Aurora: 4/n=1.99  
 Mag (Bz): -5.8  
 Solar Wind: 427.3  
 Geomag Field QUIET  
 Sig Noise Lvl S1-S2  
 Current Solar Image



<http://www.nonbh.com>  
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## DX News

**3A, MONACO.** Special event call sign **3A100A** will be QRV from **April 15th to June 30th** to commemorate the centenary of the IARU. Activity will be on 80 to 10 meters using CW, SSB, and various digital modes. QSL via LoTW.

-[ARRL DX Bulletin # 15 April 10, 2025] (0411-0627)

**3V, TUNISIA.** Jerry, SQ5HG will be QRV as **3V8SS** from **June 9th to 16th**. Activity will be on 160 to 10 meters using SSB and various digital modes. QSL to [SQ5HG](#).

-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0620)

**5R, MADAGASCAR.** Gianpi, IK1TTD, will be QRV as **5R8TD** from Mitsio Island (AF-057) from **June 4th to 11th**; see also: <https://www.qsohunter.net/it/Index/353>. QSL via [IK1TTD](#).

-[DXNL # 2461 June 4, 2025] (0606-0613)

**7P, LESOTHO.** Mark, KW4XJ and Arina, KO4PZT are QRV as **7P8AB** and **7P8NB**, respectively, **until mid-2025**. QSL via [KW4XJ](#).

-[ARRL DX Bulletin # 18 May 1, 2025] (0502-0613)

**8R, GUYANA.** Aldir, PY1SAD is QRV as **8R1TM** **until July 10th**. Activity is on 160 to 6 meters using CW, SSB, and various digital modes, as well as on various Satellites, during the weekdays between 2300z and 0200z. QSL to [PY1SAD](#).

-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0711)

**9U, BURUNDI.** Antonio IK7WUL (ex 5VØDX, TY3AA, and 9G5IK) has now received the callsign **9UØDX** for Burundi. He plans to work during his spare time, mostly on 10m (SSB). QSL direct via [IK7WUL](#).

-[DXNL # 2460 May 28, 2025] (0530-0620)

**9X, RWANDA.** Antonio IK7WUL (ex 5VØDX, TY3AA, and 9G5IK) has now received the callsign **9XØDX** for Rwanda. He plans to work during his spare time, mostly on 10m (SSB). QSL direct via [IK7WUL](#).

-[DXNL # 2460 May 28, 2025] (0530-0620)

**CE9, ANTARCTICA.** Alex, DL2ALY is QRV as **DPØGVN** **until December**. Activity is on 160 to 6 meters using SSB and FT8, and on Satellite QO-100. QSL via [DL4BBH](#).

-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0627)

**DL, GERMANY.** Special callsign **DMØLIMES** will be active from **May 1st to July 1st** for this year's German World Heritage Day (June 1st). Also active will be **DM3LIMES** on **May 31st - June 1st**. The Limes was the border line of the Roman Empire at its greatest extent. In 2005, the remnants of the Upper German-Raetian Limes were inscribed on the UNESCO World Heritage list as "Frontiers of the Roman Empire". QSL both via the bureau.

-[425DXN # 1773 April 26, 2025] (0425-0627)

**DXCC TOP TWENTY.** Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of June 5, 2025:

1. P5	DPRK (North Korea)	11. VKØM	Macquarie Island
2. BS7H	Scarborough Reef	12. KH4	Midway Island
3. CEØX	San Felix Islands	13. PYØS	Saint Peter And Paul Rocks
4. BV9P	Pratas Island	14. KP5	Desecheo Island
5. KH7K	Kure Island	15. VPØS	South Sandwich Islands
6. KH3	Johnston Island	16. ZL9	New Zealand Subantarctic Islands
7. 3Y/P	Peter 1 Island	17. FK/C	Chesterfield Islands
8. FT5/X	Kerguelen Island	18. VKØH	Heard Island
9. YVØ	Aves Island	19. FT/T	Tromelin Island
10. 3Y/B	Bouvet Island	20. EZ	Turkmenistan

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF June 6, 2025] (0606-0627)

**EA, SPAIN.** Members of Cartagena Team will be active as **AO5APA** on **June 1st-15th**. The special callsigns marks the 40th anniversary of the Patrulla Aguila ("Eagle Patrol"), the aerobatic demonstration team of the Spanish Air and Space Force. QSL via [EA5GTU](#).

-[425DXN # 1778 May 31, 2025] (0530-0620)

**EA, SPAIN.** Emil, DL8JJ, is going to try an activation of Penyet del Moro island (EU-151) on **June 7th to 9th**. QRV as **EA5/DL8JJ** on 40-10m with 10W and an L-antenna. QSL via [MØOXO's QQRS](#), LoTW.

-[DXNL # 2461 June 4, 2025] (0606-0613)

**EA8, CANARY IS.** Mike, HB9MBS plans to be QRV as **EA8/HB9MBS** from Los Quemados from **June 1st to 29th**. QSL to [HB9MBS](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0704)

**EP, IRAN.** Special event station **EP2PG** will be active on **June 6th-7th** on 40, 20 and 10 meters SSB. "This is a nationwide cultural amateur radio event dedicated to honoring the Persian Gulf - one of the oldest and most historically significant maritime regions in the world". See

<https://www.qrz.com/db/EP2PG> for more information. QSL via QRZ Logbook.

-[425DXN # 1778 May 31, 2025] (0606-0613)

**F, FRANCE.** Celebrating IARU's 100th anniversary, Dimitri, F4DSK and Lee, F5MUX will be active as **TMØIARU** on **June 7th-21st**. They will operate mainly SSB and CW. Paper QSLs are not needed; QSL via LoTW and eQSL.

-[425DXN # 1779 June 7, 2025] (0606-0620)

**F, FRANCE.** Once again the Association des Radioamateurs de la Sarthe (F6KFI) will operate a special event station for the 24 Hours of Le Mans. Look for **TM24H** on **June 1st-15th**, with activity on various bands and modes. QSL via [F6KFI](#).

-[425DXN # 1778 May 31, 2025] (0530-0620)

**F, FRANCE.** Members of the F4KIS radio club will be active as **TM41GM** from **May 27th to June 10th**. The suffix stands for "greve des mineurs", the strike of 100,000 miners of Nord-Pas-de-Calais in 1941 which was one of the earliest acts of collective resistance to Nazi occupation in France. Electronic QSLs will be available for download on <https://log-et-qsl.associations-radioamateurs.org/wp/boutique/>

-[425DXN # 1777 May 24, 2025] (0523-0613)

**F, FRANCE.** Special callsigns **TM1ØØI**, **TM1ØØA**, **TM1ØØR** and **TM1ØØU** by the Radio Club Pierre Coulon (F5KMB) celebrate the centenary of the International Amateur Radio Union from **April 12th to July 13th**. QSL via eQSL only; paper cards will not be provided.

-[425DXN # 1771 April 12, 2025] (0411-0711)

**FO, FRENCH POLYNESIA.** Nobby, GØVJG, will be operating as **FO/GØVJG** from Bora Bora Island (OC-067) from **June 11th to 27th**. QSL via [MØOXO's OQRS](#).

-[DXNL # 2457 May 7, 2025] (0606-0627)

**FO, FRENCH POLYNESIA.** Didier, F6BCW will be active as **TX5U** from Tikehau (OC-066), French Polynesia from **May 26th to June 8th**. He will operate CW and SSB (no FT8) on 40-6 meters. Full LoTW upload after six months. QSL via [ClubLog's OQRS](#), LoTW.

-[425DXN # 1773 April 26, 2025] (0523-0613)

**FS, ST. MARTIN.** John, K9EL will be active holiday style as **FS/K9EL** from St. Martin (NA-105) on **June 4th-18th**. He will focus on 6 meters when the band is open, with limited activity on 40-10 meters. QSL via [ClubLog's OQRS](#) (preferred), LoTW, or via [K9EL](#).

-[425DXN # 1778 May 31, 2025] (0530-0620)

**GJ, JERSEY.** A large group of operators are QRV as **MJ/OP2D** until **June 13th**. Activity is on 160 to 6 meters using CW, SSB, and FT8, and on Satellite QO-100, with four stations active. QSL via [MØURX's OQRS](#), LoTW.

-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0613)

**HI, DOMINICAN REPUBLIC.** The Radio Club Dominicano (HI8RCD) celebrates its 99th anniversary with the callsign **HI99RCD** from **May 31st until June 15th**. QSL via e-mail or qrz.com.

-[DXNL # 2460 May 28, 2025] (0530-0620)

**HS, THAILAND.** Special callsign **HS3ØDXA** commemorates the 30th anniversary of the Thailand DX Association (E28AC and E2X). Look for activity from **May 23rd to June 21st**, on all HF bands and the 2m band, including the amateur radio satellites. QSL via [HS6MYW](#).

-[425DXN # 1777 May 24, 2025] (0523-0620)

**I, ITALY.** Domenico, IK1MNF will be active again as **IK1MNF/IA5** from Isola d' Elba (EU-028) from early June until the end of September. He will operate mainly SSB on 20-6 meters. QSOs will be uploaded to LoTW and ClubLog. QSL via [IK1MNF](#).

-[425DXN # 1778 May 31, 2025] (0606-0627)

**I, ITALY.** Launched in 1904, the 'Elettra' was a two-masted steam yacht that Guglielmo Marconi used as a floating laboratory for many experiments. Part of her keel stands in the grounds of Villa Griffone, at Pontecchio near Bologna, from where ARI Fidenza will be active as **IY4RXO** during the Museum

Ships Weekend (**June 7th-8th**). QSL via [IQ4FE](#) and LoTW.  
-[425DXN # 1778 May 31, 2025] (0606-0613)

**J6, SAINT LUCIA.** Matts, SMØFPR, operates holiday-style as **J6/SMØFPR** from **May 26th to June 8th**, mostly on CW, some SSB. QSL via [ClubLog's OQRS](#), LoTW.  
-[DXNL # 2459 May 21, 2025] (0523-0613)

**JA, JAPAN.** A group of operators are QRV as **JS6UVV** from Irizaki Cape, Yonaguni Island (AS-024) **until June 9th**. Activity is on the HF bands and 6 meters, as well as 2 meters, 70 centimeters, and 23 centimeters using CW, SSB, FM, FT8, and FT4. QSL via LoTW.  
-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0613)

**JA, JAPAN.** Take, JI3DST will be active again as **JS6RRR** from Miyako Island (AS-079) from **April 23rd to June 18th**. Other callsigns to be used are **JI3DST/6**, **JJ5RBH/6** and **JA3YEC/6**, as well as **JI3DST/p**, **JJ5RBH/p** and **JA3YEC/p** on FT8. QSOs will be made available for ClubLog and LoTW matching on the IOTA website. QSL via [ClubLog's OQRS](#).  
-[425DXN # 1774 May 3, 2025] (0502-0620)

**JD1/M, MINAMI TORISHIMA.** Take, JG8NQJ is QRV as **JG8NQJ/JD1** **until June 20th**. Activity is in his spare time on the HF bands using CW and FT8. QSL via [JA8CJY](#) (direct), JG8NQJ (bureau) and LoTW.  
-[ARRL DX Bulletin # 16 April 17, 2025] (0418-0620)

**KH8, AMERICAN SAMOA.** Bob, KØNR and Joyce, KØJJW will be QRV as **KH8/KØNR** and **KH8/KØJJW**, respectively, from **May 27th to June 9th**. Activity is primarily on 20 to 10 meters using SSB, FT8, and FT4 while activating various SOTA and POTA locations. QSL via LoTW only.  
-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0613)

**KL7, ALASKA.** Neha, VU2HUM and Pineit, VU2TUM will be QRV as **KL7/VU2HUM** and **KL7/VU2TUM**, respectively, around Prudhoe Bay and parts of southeastern Alaska from **June 7th to 20th**. Activity will be on the HF and VHF/UHF bands. QSL via [VU2TUM](#).  
-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0620)

**OE, AUSTRIA.** Special callsign **OE7ØOE** celebrates the Austrian State Treaty of 70 years ago **until the end of June**.  
-[DXNL # 2459 May 21, 2025] (0523-0627)

**ON, BELGIUM.** Special callsign **OT25EPIC** by the Antwerp Port Contest Club (ON8APC) promotes this year's edition of the Antwerp Port Epic cycling race. Look for activity from **May 10th until June 9th** (the actual day of the race). QSL via [ON8JJ](#).  
-[425DXN # 1774 May 3, 2025] (0509-0613)

**OX, GREENLAND.** Bo, OZ1DJJ will be active as **OX3LX** from two locations on the main island of Greenland (NA-018): Kangerlussuaq (GP47pa) on **June 5th-9th**, and Nuuk (GP44de) on **June 10th-22nd**. As always, this will be a working trip, and he will be QRV only in his spare time. QSL via [OZØJ](#), [ClubLog's OQRS](#) and LoTW.  
-[425DXN # 1778 May 31, 2025] (0530-0627)

**OY, FAROE IS.** A group of operators will be QRV as **OY6FRA**, **OY/W9MK**, and **OY/K4LT** from **June 1st to 10th**. Activity will be on 160 to 6 meters using CW, SSB, and FT8. They will also be active as **OY6A** in the upcoming ARRL Digital contest (June 7th-8th). See <https://faroeis.com/> for more information. Full upload to LoTW 6 months after the expedition. QSL all calls via [WB2REM](#) or [ClubLog's OQRS](#).  
-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0613)

**PA, NETHERLANDS.** Special event station **PA2Ø25NATO** will be QRV during the **month of June** to highlight the 2025 NATO Summit to be held in the Hague. QSL via bureau or direct to [PA2Ø25NATO](#).  
-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0704)

**PA, NETHERLANDS.** Peter, PD1RP is QRV with special event station **PD8ØFREE** **until June 30th** to celebrate the 80 years of liberation since World War II. Activity is on 40, 20, 10, and 2 meters using



CW, SSB, and digital modes. QSLs sent to all contacts via the bureau. No QSL or request needed.  
-[ARRL DX Bulletin # 15 April 10, 2025] (0411-0627)

**T8, PALAU.** Chusuke, JR1FKR is QRV as **T88TJ** until **June 11th**. Activity is on 40, 20, 17, 15, 10 and 6 meters using SSB, RTTY, FT8, and FT4. This includes being an entry in the ARRL International Digital contest (June 7th-8th). QSL to [JR1FKR](#), LoTW  
-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0613)

**TI, COSTA RICA.** Guy, N7ZG is QRV as **TI8/N7ZG** from Playa Zancudo. His length of stay is unknown. This includes being a Single Op/All Band/High Power entry in the CQ WPX CW contest (May 24th-25th). QSL via [EA3GL](#).  
-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0613)

**TK, CORSICA.** Pascal, F6UIG will be active as **TK2C** from Corsica (EU-014) on **June 9th-23rd**. He will operate CW and SSB on 40-10 meters. He could also be QRV as TK/F6UIG/p while doing some POTA activities. QSL via [F6UIG](#).  
-[425DXN # 1779 June 7, 2025] (0606-0627)

**TR, GABON.** Roland, F8EN, QRV as **TR8CR** is currently one of the few active stations in the country. He plans to celebrate his 97th birthday in Libreville and then in **mid-June** return to France permanently. QSL via [F6AJA](#).  
-[DXNL # 2460 May 28, 2025] (0530-0620)

**V5, NAMIBIA.** Remo, HB9SHD is QRV as **V51/HB9SHD** until **June 15th**. Activity is holiday style on 40 to 6 meters using SSB and various digital modes. QSL via LoTW.  
-[ARRL DX Bulletin # 18 May 1, 2025] (0502-0620)

**VE, CANADA.** To celebrate the 65th anniversary of the Dobson Trail, Canada's longest volunteer-maintained trail, special event station **VC9DT** will be active **throughout June**. It will be operated by VE9ACC and friends from various locations along the 60-kilometer trail, including several WWFF (World Wide Flora & Fauna) sites. Operators will be QRV on multiple bands on SSB and FT8/FT4. See <https://www.qrz.com/db/VC9DT> for award information and further details. QSL via [VE9CF](#).  
-[425DXN # 1777 May 24, 2025] (0530-0627)

**VP5, TURKS & CAICOS IS.** Fabian, J69FL is QRV as **VP5FL** from Providenciales Island while working here. Activity may be in his spare time on 80 to 10 meters using SSB. QSL to [J69FL](#).  
-[ARRL DX Bulletin # 23 June 5, 2025] (0606-0627)

**VP8, FALKLAND IS.** Gerry, G3WIP, now that he is retired, has moved from Ascension Island (ZD8GB) to Port Stanley and plans to operate as **VP8DPD** from **May 10th until July 12th**, mostly on 20-10m. QSL via [EA5GL](#).  
-[DXNL # 2458 May 14, 2025] (0516-0711)

**YJ, VANUATU.** Bob, ZL1RS will be active as **YJØRS** from Efate (OC-035), Vanuatu on **June 11th-28th**. He will be QRV primarily on 6 meters FT8, with the main focus on ionospheric propagation and some activity on 10 meters if the Magic Band is closed. He will also be on 6m EME for about one hour at each moonrise and moonset. See [https://www.qsl.net/zl1rs/yj0\\_eme.html](https://www.qsl.net/zl1rs/yj0_eme.html) for more information. QSL via LoTW, [ClubLog's OQRS](#), or via [ZL1RS](#).  
-[425DXN # 1779 June 7, 2025] (0606-0627)

**ZC4, UK SOVEREIGN BASE AREAS ON CYPRUS.** Martin, MWØBRO will be active again as **ZC4GW** from Dhekelia from **May 28th to June 9th**. He will operate CW, some SSB and "definitely no digital modes" on 40-6 meters. QSL via [MØURX's OQRS](#).  
-[425DXN # 1777 May 24, 2025] (0523-0613)

**ZL, NEW ZEALAND.** Special callsign **ZL1ØØIARU** will be used by New Zealand's IARU member society, NZART, to celebrate the 100th anniversary of the International Amateur Radio Union **until July 31st**. QSOs will be uploaded to QRZ Logbook and LoTW.  
-[425DXN # 1776 May 17, 2025] (0516-0801)

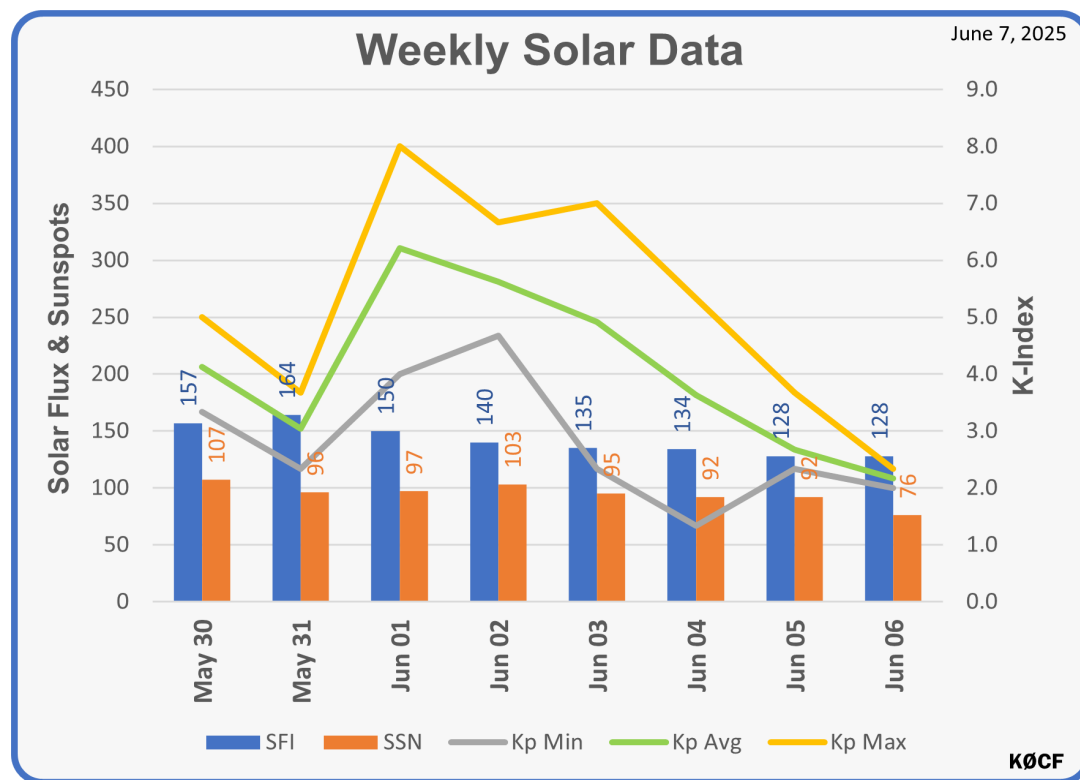
**ZL7, CHATHAM IS.** Holger, DL3IO is QRV as **ZL7IO** from Waitangi (OC-038) until **June 26th** while working on equipment repairs. He may be active as a Single Op/Single Band/Low Power 40 meter entry in the CQ WPX CW contest (May 24th-25th). QSL via LoTW, [ClubLog's OQRS](#) (preferred), or via [DK7AO](#).

-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0627)

**ZP, PARAGUAY.** Vlad, OK2WX is QRV as **ZP6WX** until **June 8th**. Activity is on 80 to 6 meters. QSL via LoTW.

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0613)

## Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

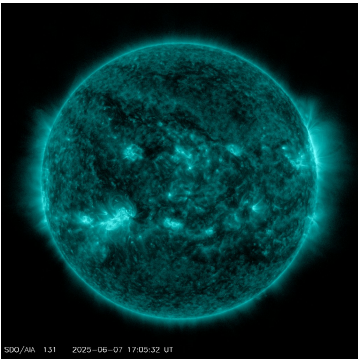
The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

*Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.*

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



**Propagation Summary**

For the 8 day period from Friday, May 30th through yesterday, June 6th.

The average solar flux was 140, unchanged from the previous week, with a weekly high of 164 on Saturday, May 31st, followed by a low of 128 on June 6th.

The average sunspot count was 93, down by 19 from last week, peaking at 107 on Friday, May 30th followed by a weekly low of 76 on June 6th.

The Planetary K-index weekly average was 5.2 with a maximum of 8.0 on Sunday, June 1st, indicating a severe geomagnetic storm. Yesterday's K-index maximum was 2.3 with generally quiet conditions.

Solar flare activity since May 31st has been decreasing with 7 major flares, the largest of which was an M 8.1 event on Saturday, May 31st.

**Propagation Data**

Major solar flares, Saturday, May 31st through 1451 UTC, June 7th.

#	Date	UTC	Mag.
1	Jun 04	2329	M 1.1
2	Jun 03	1303	M 1.5
3	Jun 02	2142	M 1.1
4	Jun 02	1118	M 3.3
5	May 31	0818	M 4.5
6	May 31	0518	M 2.4
7	May 31	0005	M 8.1

(NOAA's graph of recent flare activity: [GOES-X-Ray-Flux](#))

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Jun 7	35%	5%	128
Jun 8	35%	5%	125
Jun 9	35%	5%	125

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on June 2, 2025).



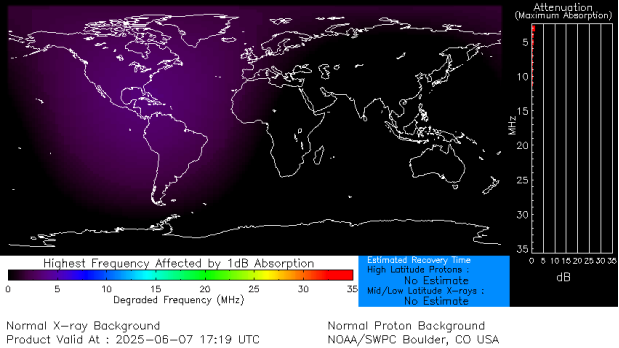
Date	Flux	Kp
Jun 7	155	3
Jun 8	155	3
Jun 9	155	2
Jun 10	155	4

Date	Flux	Kp
Jun 11	150	4
Jun 12	150	3
Jun 13	155	6
Jun 14	155	5

Date	Flux	Kp
Jun 15	155	4
Jun 16	160	4
Jun 17	160	4
Jun 18	155	3

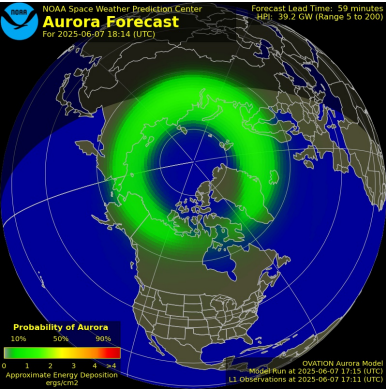
Global D Region Absorption

Conditions in the D-region of the ionosphere have a dramatic effect on HF communications. The D-Region Absorption map combines the effects of solar particles and photons. Yellow to red colors on the map depict increasing signal attenuation, where the bar chart at the right displays attenuation versus frequency. Click the thumbnail below for an animated map of D-Region Absorption:



The Aurora Borealis

The aurora is not only beautiful to see but can have a profound impact on HF and VHF radio propagation. For the HF operator, auroras can result in a complete shut-down of propagation. However, on VHF, auroras present interesting DX possibilities. Beam antennas are very desirable and should be pointed north, towards the aurora. Signals are reflected by “back-scatter” and will be distorted with a rough buzz. SSB is the best voice mode to use, but copy can be difficult. CW will have a rough buzzy sound but be perfectly copyable. Click the thumbnail below for an animated map of aurora versus time:



Highs for Cycle 25

Solar Flux: 336 on August 8, 2024.  
Sunspots: 382 on August 10, 2024.

Glancing-Blow CME

A CME that left the sun 3 days ago when a magnetic filament erupted near the sun's equator could graze Earth on **June 7th**. NOAA forecasters say the glancing blow could spark **G1**-class geomagnetic storms.

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Popular Propagation web sites

<https://prop.kc2g.com/> (Excellent Maximum Usable Frequency map)



NOAA <https://www.swpc.noaa.gov/>  
<https://www.spaceweather.com/>  
<https://www.solarham.com/>  
<https://dx.gsl.net/propagation/>

## A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

## Contest Calendar

### Weekly Contests

Contest	Start UTC		End	Web Site
K1USN Slow Speed Test	Monday	0000Z	0100Z	<a href="#">Rules</a>
ICWC Medium Speed Test	Monday	1300Z	1400Z	<a href="#">Rules</a>
	Monday	1900Z	2000Z	
	Tuesday	0300Z	0400Z	
CWops Test (CWT)	Wednesday	1300Z	1400Z	<a href="#">Rules</a>
	Wednesday	1900Z	2000Z	
	Thursday	0300Z	0400Z	
	Thursday	0700Z	0800Z	
Weekly RTTY Test	Friday	0145Z	0215Z	<a href="#">Rules</a>
NCCC CW Sprint (NS)	Friday	0230Z	0300Z	<a href="#">Rules</a>

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or

Sunday at 6:00 PM in the Central Standard Time zone.

## Full Calendar

Contest	Start		End		Web Site
Kentucky QSO Party	Jun 7	1300Z	Jun 8	0100Z	<a href="#">Rules</a>
<b>ARRL Inter. Digital Contest</b>	Jun 7	1800Z	Jun 8	2400Z	<a href="#">Rules</a>
ARRL June VHF Contest	Jun 14	1800Z	Jun 16	0300Z	<a href="#">Rules</a>
Stew Perry Topband Challenge	Jun 21	1500Z	Jun 22	1500Z	<a href="#">Rules</a>
West Virginia QSO Party	Jun 21	1600Z	Jun 22	0400Z	<a href="#">Rules</a>
ARRL Kids Day	Jun 21	1800Z	Jun 21	2359Z	<a href="#">Rules</a>
His Maj. King of Spain Contest, SSB	Jun 28	1200Z	Jun 29	1200Z	<a href="#">Rules</a>
<b>ARRL Field Day</b>	Jun 28	1800Z	Jun 29	2100Z	<a href="#">Rules</a>
RAC Canada Day Contest	Jul 1	0000Z	Jul 1	2359Z	<a href="#">Rules</a>
<b>IARU HF World Championship</b>	Jul 12	1200Z	Jul 13	1200Z	<a href="#">Rules</a>
North American QSO Party, RTTY	Jul 19	1800Z	Jul 20	0600Z	<a href="#">Rules</a>
CQ Worldwide VHF Contest	Jul 19	1800Z	Jul 20	2100Z	<a href="#">Rules</a>
North American QSO Party, CW	Aug 2	1800Z	Aug 3	0600Z	<a href="#">Rules</a>
<b>WAE DX Contest, CW</b>	Aug 9	0000Z	Aug 10	2359Z	<a href="#">Rules</a>
Maryland-DC QSO Party	Aug 9	1400Z	Aug 10	0400Z	<a href="#">Rules</a>
<b>North American QSO Party, SSB</b>	Aug 16	1800Z	Aug 17	0600Z	<a href="#">Rules</a>
ARRL Rookie Roundup, RTTY	Aug 17	1800Z	Aug 17	2359Z	<a href="#">Rules</a>
Ohio QSO Party	Aug 23	1600Z	Aug 24	0400Z	<a href="#">Rules</a>
YO DX HF Contest	Aug 30	1200Z	Aug 31	1200Z	<a href="#">Rules</a>
World Wide Digi DX Contest	Aug 30	1200Z	Aug 31	1200Z	<a href="#">Rules</a>
Kansas QSO Party	Aug 30	1400Z	Aug 31	2000Z	<a href="#">Rules</a>
Tennessee QSO Party	Sep 7	1700Z	Sep 8	0300Z	<a href="#">Rules</a>

-[Contest data courtesy of the [WA7BNM Contest Calendar](#) ]